

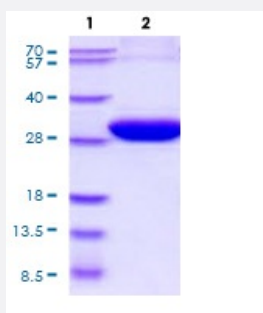
Bioactive

ECHS1 (Human) Recombinant Protein

Catalog # P8016

Size 100 ug

Applications



Specification

Product Description

Human ECHS1 (P30084, 28 a.a. - 290 a.a.) partial length recombinant protein with His tag expressed in *Escherichia coli*.

Sequence

ASGANFEYIAEKRGKNNTVGLIQLNRPKALNALCDGLIDELNQALKTFEEDPAVGAMLTGGDKAF
AAGADIKEMQNLSFQDCYSSKFLKHWDHLTQVKKPVIAAVNGYAFGGGCELAMMCDIYAGEKAQ
FAQPEILIGTIPGAGGTQRLTRAVGKSLAMEMVLTGDRISAQDAKQAGLVSKICPVETLVEEAIQCA
EKIASNSKIVAMAKESVNAAFEMTLTEGSKLEKKLFYSTFATDDRKEGMTAFVEKRKANFKDQ

Host

Escherichia coli

Theoretical MW (kDa)

30.6

Form

Liquid

Preparation Method

Escherichia coli expression system

Purity

> 95% by SDS-PAGE

Activity

Specific activity is > 150 unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0 umole of crotonoyl-CoA to hydroxybutyryl-CoA per minute per minute at pH 7.5 at 25°C.

Quality Control Testing

3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.

Storage Buffer

In 20mM Tris-HCl pH 8.0 (20% glycerol, 100 mM NaCl, 1 mM DTT)

Storage Instruction

Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — ECHS1

Entrez GeneID [1892](#)

Protein Accession# [P30084](#)

Gene Name ECHS1

Gene Alias SCEH

Gene Description enoyl Coenzyme A hydratase, short chain, 1, mitochondrial

Omim ID [602292](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene functions in the second step of the mitochondrial fatty acid beta-oxidation pathway. It catalyzes the hydration of 2-trans-enoyl-coenzyme A (CoA) intermediates to L-3-hydroxyacyl-CoAs. The gene product is a member of the hydratase/isomerase superfamily. It localizes to the mitochondrial matrix. Transcript variants utilizing alternative transcription initiation sites have been described in the literature. [provided by RefSeq]

Other Designations OTTHUMP00000020811|mitochondrial short-chain enoyl-coenzyme A hydratase 1

Pathway

- [Benzoate degradation via CoA ligation](#)
- [beta-Alanine metabolism](#)
- [Butanoate metabolism](#)
- [Caprolactam degradation](#)

- [Fatty acid elongation in mitochondria](#)
- [Fatty acid metabolism](#)
- [Limonene and pinene degradation](#)
- [Lysine degradation](#)
- [Metabolic pathways](#)
- [Propanoate metabolism](#)
- [Tryptophan metabolism](#)
- [Valine](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)